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In re Application of

THACKERAY, et al

Application Number

08/206792

Filed

March 4, 1994

Paper No. #29.

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United States Patent Application Publication No. 2002/0197532, page, _____ line _____.

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US 20020197532A1

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(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2002/0197532 A1**
Thackeray et al. (43) **Pub. Date: Dec. 26, 2002**(54) **ELECTROCHEMICAL CELL****Publication Classification**(75) **Inventors:** Michael M. Thackeray, Lynnwood
Ridge (ZA); Rosalind J. Gummow,
Garsfontein (ZA); Ernest E. Ferg,
Wilro Park (ZA)(51) **Int. Cl.⁷** H01M 4/48; H01M 4/52;
H01M 4/50; H01M 4/58
(52) **U.S. Cl.** 429/231.1; 429/231.95; 429/231.5;
429/231.2; 429/231.3; 429/221;
429/224**Correspondence Address:****Mark B. Wilson**
FULBRIGHT & JAWORSKI L.L.P.
Suite 2400
600 Congress Avenue
Austin, TX 78701 (US)(57) **ABSTRACT**(73) **Assignee:** Technology Finance Corporation (Pro-
prietary) Limited, Sandton (ZA)(21) **Appl. No.:** 10/228,734(22) **Filed:** Aug. 27, 2002**Related U.S. Application Data**(63) Continuation of application No. 08/206,792, filed on
Mar. 4, 1994.(30) **Foreign Application Priority Data**

Sep. 2, 1993 (ZA)..... 93/6488

An electrochemical cell comprises as an anode, a lithium transition metal oxide or sulphide compound which has a $[B_2]X_4^{n-}$ spinel-type framework structure of an $A[B_2]X_4$ spinel wherein A and B are metal cations selected from Li, Ti, V, Mn, Fe and Co, X is oxygen or sulphur, and n- refers to the overall charge of the structural unit $[B_2]X_4$ of the framework structure. The transition metal cation in the fully discharged state has a mean oxidation state greater than +3 for Ti, +3 for V, +3.5 for Mn, +2 for Fe and +2 for Co. The cell includes as a cathode, a lithium metal oxide or sulphide compound. An electrically insulative lithium containing liquid or polymeric electronically conductive electrolyte is provided between the anode and the cathode.